

FlowScan 501

Flowbench for internal combustion engine



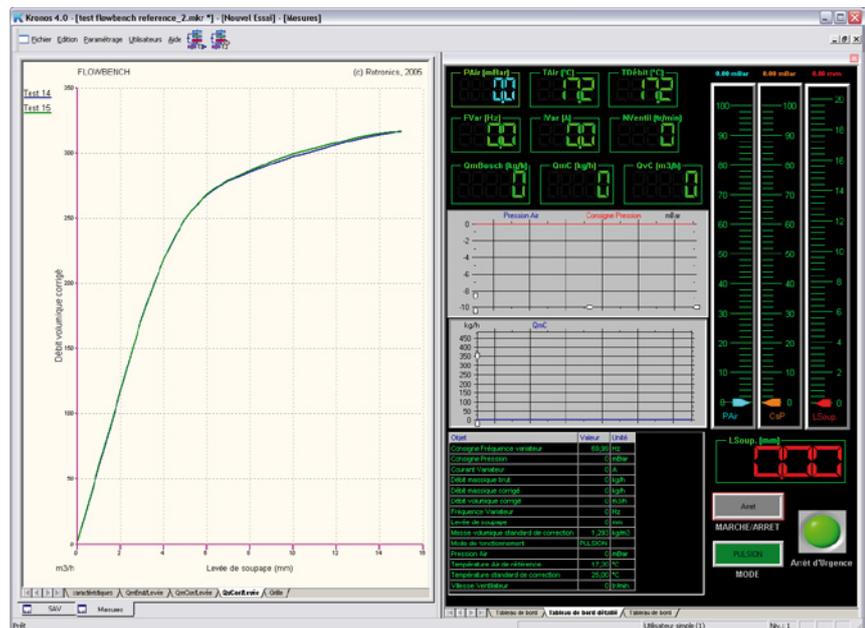
Flowscan is a cylinder head flow bench designed for the development and optimisation of two and four stroke engines in industry, racing, as well as technical teaching. The software manages the test pressure regulation and also measures the mass flow rate of the air flow to a highly precise level. The procedure of memorizing the load curve for a given test pressure is automated. The user just has to position the valve at the required value then the software automatically records the measurement as soon as the test pressure is stabilised. Subsequently, various comparative measurements can be superimposed on the screen.

Benefits :

- Mass flow rate sensor,
- Software for measurement and management included,
- Large flow and pressure range,
- High precision of the flow sensor over the complete measuring range, without any manual gauge changes,
- Temperature correction integrated with the flow mass and volume rates,
- System works in vacuum and under pressure,
- Semi-automatic measurement procedure.

Characteristics :

- Maximum Pressure : 120 mbar,
- Maximum Flow : 650 m³/h,
- Flow of 580 m³/h under 50 mbar,
- Flow of 480 m³/h under 100 mbar,
- Dimension : W X L X H = 155 X 85 X 110 cm,
- Weight : 300 kg,
- Feed : 3 X 400V + N, 20 A.



Function of the software :

- Display of the gross mass flow rate, the corrected mass flow rate, the flow volume corrected according to the position of the valve,
- Semi-automatic measurement procedure,
- Display of the data in the form of spreadsheets and graphs,
- Superimpose up to 16 measurements on the screen,
- Copy the measures to the clip board for direct use in a spreadsheet,
- Display of the measurements in metric and imperial units (Kg/h, g/s, m³/h, l/min, l/s, cfm...)

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